

Microsoft_CertifyMe_70-536_v2011-01-12_281q_By-Gaahl

Number: 70-536

Passing Score: 800

Time Limit: 1200 min

File Version: 2011-01-12

Microsoft : 70-536

Version : 2011-01-12

Question : 281

***Good Luks
Everiwun!***

By-Gaahl

Exam C

QUESTION 1

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Windows Service application that will be used on a multiprocessor system.

You are writing code for a class that contains globally accessible Integer variable named Testcounter.

The value of the Testcounter will be incremented or decremented from other classes running in separate threads.

You are required to provide atomic and non-blocking updates for the Testcounter whilst your solution provides the best performance.

What should you do?

- A. The Interlocked class should be used
- B. The Overlapped class should be used
- C. The SynchronizationContext class should be used
- D. The SyncLock statement should be used

Answer: A

Section: (none)

Explanation/Reference:

Explanation: For this particular scenario the Interlocked class is ideal because you are required to provide atomic and non-blocking updates for a data item.

Incorrect Answers:

B: This option should not be used in the scenario because it is used to transfer information to Win32 API functions.

C: This operation should not be used as you will not be providing atomic and non-blocking updates.

D: This option should not be used as it does not offer atomic operations and offers inferior performance compared to the Interlocked class.

QUESTION 2

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Windows Service application. You are required to synchronize execution of some resources across multiple processes.

What should you do?

- A. Use the Mutex class.
- B. Use the Interlocked class.
- C. Use the Monitor class.
- D. Use the ReaderWriterLock class.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The Mutex class can be used for the synchronization of thread execution across multiple processes.

Incorrect Answers:

B, C, D: The classes in question in these options can not be used in the scenario because they can only be used within a single process.

QUESTION 3

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 application that uses the CreateDomain method of the AppDomain class to create an application domain.

You are required to set the following properties for the new application domain:

- * Root directory
 - * Location of the configuration file
 - * Search path that the Common Language Runtime uses to load the assemblies into the domain
- You must ensure that these properties values are passed to the CreateDomain method.

What should you do?

- A. Pass an AppDomainFactory object as a parameter to the CreateDomain method.
- B. Pass an AppDomainIsolatedTask object as a parameter to the CreateDomain method.
- C. Pass an AppDomainHelper object as a parameter to the CreateDomain method.
- D. **Pass an AppDomainSetup object as a parameter to the CreateDomain method.**

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The correct method for achieving your scenario objective is to pass an AppDomainSetup object as parameter to the CreateDomain method. The AppDomainSetup object is used to allow you to specify the root directory and required.

Incorrect Answers:

A: This method is used to create a new AppDomain instance for the Web applications and can not be used to specify setup information for an application domain.

B: The method in question here can be used to create build tasks that can be instantiated in their own application domain but can not be used to specify setup information.

C: This method should not be used in the scenario as it switches into the given application domain and does a callback on the given function and can not be used to specify setup information.

QUESTION 4

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 system utility application and are required to write some code that allows you to examine assemblies compiled for other platforms of the .NET Framework. You create a new application domain and load assemblies into it.

You are required to ensure that code loaded into this context can be examined but not executed.

You know the path name of the file containing the assembly but you do not know the name of the assembly.

What should you do?

- A. **The Assembly.ReflectionOnlyLoadFrom method should be used.**
- B. The Assembly.LoadFrom method should be used.
- C. The Assembly.ReflectionOnlyLoad method should be used.
- D. The Assembly.Load method should have been used.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The correct method for what is required would be to use the reflection-only load context because this allows you to only examine the assembly and not execute it.

Incorrect Answers:

B, D: These methods should not be considered for usage because the methods allow you to execute code and create objects.
C: The method in question should not be considered for usage when you only know the path name to where the assembly resides.

QUESTION 5

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Web application. You need to access the configuration data for the application.

You do not need read-only access to the configuration data whilst your solution provides the maximum performance.

What should you do?

- A. The GetSection method of the Configuration class should be used
- B. The GetSection method of the ConfigurationManager class should be used
- C. The GetSectionGroup method of the Configuration class should be used
- D. The GetSection method of the WebConfigurationManager class should be used

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The configuration class in question is designed to programmatically access configuration information for Web applications. The GetSection static method retrieves the cached configuration information.

Incorrect Answers:

A: The method in question does allow programmatic access to all configuration files but it does not cache configuration values for the current application.

B: This should be avoided at all costs as it is best suited for retrieving information for Windows client applications.

C: This method is used to only retrieve specific section groups from the configuration object similar to the GetSection method.

QUESTION 6

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Web application and are busy creating a Configuration object in your application that inherits

settings from the applications' web.config file and machine.config file.

You modify several of the Configuration objects settings and want to save the Configuration object to a file named testconf.config.

You require only the values that differ from the inherited values to be written to the configuration file.

What should you do? (Choose two)

- A. The Save method on the Configuration object should be called
- B. The ConfigurationSaveMode.Full value must be passed as a parameter
- C. The ConfigurationSaveMode.Modified value must be passed as a parameter
- D. The SaveAs method on the Configuration object should be called
- E. The ConfigurationSaveMode.Minimal value should be passed as a parameter

Answer: CD

Section: (none)

Explanation/Reference:

Explanation: When you are required to write configuration settings to a different file the SaveAs method should be called. If you wish to write only values which differ from inherited values the ConfigurationSaveMode.Minimal value should be passed as a parameter.

Incorrect Answers:

A: This method is used to have the SaveAs method to save all the values to the configuration file that you specified in the scenario.

B: This method is used to have the SaveAs method to only the modified values to the configuration file that you specified in the scenario.

QUESTION 7

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are in the process of maintaining a .NET Framework 1.0 Windows application and need to configure the application to run using the .NET Framework 1.1.

The network computers of Certkiller .com all have three versions of .NET Framework (version 1.0, 1.1, and 2.0 installed side-by-side.

You are required to modify the application configuration file to target the .NET Framework 1.1 runtime.

What should you do?

- A. `<configuration>`
 `<startup>`
 `<supportedRuntime version="v2.0.50727"/>`
 `<supportedRuntime version="v1.1.4322"/>`
 `<supportedRuntime version="v1.0.3705"/>`
 `</startup>`
 `</configuration>`
- B. `<configuration>`
 `<startup>`
 `<supportedRuntime version="v1.1.4322"/>`
 `<supportedRuntime version="v1.0.3705"/>`
 `</startup>`
 `</configuration>`
- C. `<configuration>`
 `<startup>`
 `<requiredRuntime version="v1.1.4322"/>`
 `</startup>`
 `</configuration>`
- D. `<configuration>`
 `<startup>`
 `<supportedRuntime version="v1.1.4322"/>`
 `</startup>`
 `</configuration>`

Answer: D

Section: (none)

Explanation/Reference:

Explanation:

To have your applications run under the required runtime in the scenario you should use the configuration section provided in the answer, this is the only correct method.

Incorrect Answers:

A: The method you are trying to use here is incorrect as you would be executing against .NET Framework v2.0.

B: The method you are trying to use here is incorrect as you would be executing against .NET Framework v1.1.

C: This method is used to indicate that the application only supports .Net Framework v1.0 and should not be used in the scenario.

QUESTION 8

C: The path here is incorrect since you only need point to the Test20 path in the scenario. You work as the application developer at Certkiller .com.

Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 application and are busy developing the shared assembly called BillSharedObjects which resides in a file named BillSharedObjects.dll, upon compiling you store the assembly in the C:\BillSharedObjects\Debug directory.

You do not want the assembly to be repeatedly installed in the global assembly cache while you develop and debug.

You want the application to load the assembly from its current location by .Net Framework when testing whilst any changes made to the system not affect

any other applications that are deployed or will be deployed.

What should you do? (Choose two)

- A. C:\SharedObjects\Debug must be put in the PATHEXT environment variable
- B. C:\SharedObjects\Debug must be put in the PATH environment variable
- C. C:\SharedObjects\Debug must be put in the DEVPATH environment variable
- D. The following code should be added to the application configuration file:

```
<configuration>
<runtime>
<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1"> <probing privatePath="c:\SharedObjects\Debug"/>
</assemblyBinding>
</runtime>
</configuration>
```
- E. The following code should be added to the machine configuration file:

```
<configuration>
<runtime>
<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1"> <dependantAssembly>
<assemblyIdentity name="BillSharedObjects"
publicKeyToken="12ac3ab67e0a34b5"
culture="en-us"/>
<codeBase version="2.0.0.0"
href="BillSharedObjects\Debug"/>
</dependantAssembly>
</assemblyBinding>
</runtime>
</configuration>
```
- F. The following code should be added to the machine configuration file:

```
<configuration>
<runtime>
<developmentMode developerInstallation="true"/>
</runtime>
</configuration>
```

Answer: F

Section: (none)

Explanation/Reference:

Explanation:

In order for you to achieve the scenario objective you must use the <developmentMode> element and set the developerInstallation attribute to "true" this will let .NET Framework search for assemblies in the DEVPATH environment variable.

Incorrect Answers:

A, B: This method is incorrect as these environment variables are used by Windows and are not used by .NET Framework.

D, E: The usage of the <codeBase> and <probing> elements are incorrect as the one is useful for specifying the search path for private assemblies and the other will affect settings of applications that are already deployed.

QUESTION 9

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Windows service application that has three distinct Windows services. You create a custom installation class named

BillAppInstaller which derives from the Installer class.

Within the class you decide to customize installation for each Windows service by using the ServiceInstaller objects and add them to the installer collection below:

```
Installers.Add(serviceInstaller1)
Installers.Add(serviceInstaller2)
Installers.Add(serviceInstaller3)
```

You later compile the class and store in a file named BillAppInstaller.dll. You are required to programmatically access and install the Windows services in the BillAppInstaller.dll file.

What should you do?

- A. Use the ManagedInstallerClass class.
- B. Use the ComponentInstaller class.
- C. Use the InstallContext class.
- D. Use the AssemblyInstaller class.

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The AssemblyInstaller class should be used in the scenario because the AssemblyInstaller class is capable of loading available installers in an assembly and install them.

Incorrect Answers:

A: This class should not be used in the scenario as this is not for the .NET Framework internal use.

B: This method is used to install components such as event logs and performance counters and should not be used in the scenario.

C: This class should not be used because by itself the class can not help install the installers in an assembly.

QUESTION 10

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Remoting application with the name of your class BillType and the name of the assembly TestAssembly which will be accessed using the Transmission Control Protocol (TCP) at port 1234.

You are required to expose BillType as a server-activated object for remote access whilst you must use a configuration file to register the remote object.

What should you do?

- A. `<configuration>`
`<system.runtime.remoting>`
`<application>`
`<service>`
`<activated type = "BillType, TestAssembly"/>`
`</service>`
`</application>`
`</system.runtime.remoting>`
`</configuration>`
- B. `<configuration>`
`<system.runtime.remoting>`
`<application>`
`<client url="tcp://localhost:1234/BillType.rem">`
`<activated type = "BillType, TestAssembly"/>`
`</client>`
`</application>`
`</system.runtime.remoting>`
`</configuration>`
- C. `<configuration>`
`<system.runtime.remoting>`
`<application>`
`<service>`
`<wellknown mode = "Singleton"`
`type = "BillType, TestAssembly"objectUri="BillType.rem"/>`
`</service>`
`</application>`
`</system.runtime.remoting>`
`</configuration>`
- D. `<configuration>`
`<system.runtime.remoting>`
`<application>`
`<client>`
`<wellknown type="BillType, TestAssembly" url="tcp://localhost:1234/BillType.rem"/>`
`</client>`
`</application>`
`</system.runtime.remoting>`
`</configuration>`

Answer: C

Section: (none)

Explanation/Reference:

Explanation: In order to successfully set up an object for remote access the configuration used in the answer is the proper method if you want the object to be activated as a server object.

Incorrect Answers:

A, B, D: The usage of the `<client>` element is incorrect as this will be used to configure a program that will consume the remote object and in the scenario you must expose an object for remote access.

QUESTION 11

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 application for Certkiller .com.

You complete the application but as soon as Certkiller .com users attempt to log on to the application the application fails.

You need to have an entry written to the Windows event log. When you look at the event log viewer you want the source of the events to be listed as TestApp.

You are required to create an event source that can be used to write entries to the event log.
What should you do?

- A. `If Not EventLog.SourceExists("TestApp") Then
EventLog.CreateEventSource("TestApp", "Application")
End If`
- B. `EventLog.LogNameFromSourceName("TestApp", "Application")`
- C. `EventLog.LogNameFromSourceName("TestApp", "Security")`
- D. `If Not EventLog.SourceExists("TestApp") Then
EventLog.CreateEventSource("TestApp", "Security")
End If`

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The code that is used in the answer is the proper code that should be used to create entries into the Application event log.

Incorrect Answers:

B, C, D: The other methods that are used are not correct because the security log is read-only and furthermore the LogNameSourceName method returns the name of an event log for the given event and does not help in creating an event source.

QUESTION 12

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Windows application named TestAnalyzer.exe that will be used to monitor the Application event log of the local computer to find if any new events are generated by another application named BillNotify.exe which runs on the local computer named Certkiller -WS11.

Whenever a new event log entry is recorded the application must invoke the applicationLog_EntryWritten method in response.

You write the code below for the notification of new event log entries:

```
Dim applicationLog As EventLog = New EventLog("Application", ".")  
AddHandler applicationLog.EntryWritten,  
AddressOf  
applicationLog_EntryWritten
```

When you test the application you discover that there are no notifications generated. You are required to ensure that you are notified of a new event log entries.

What should you do?

- A. `The applicationLog.EnableRaisingEvents property must be set to True`
- B. `The applicationLog.Log property must be set to BillNotify.exe`
- C. `The applicatioLogMachineName property must be set to Certkiller -WS11`
- D. `The applicationLog EnableRaisingEvents property must be set to False`

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The EnableRaisingEvents property of the applicationLog object must be set to true if you want to be notified whenever new entries have been written to the specified event log.

Incorrect Answers:

- B: This method is incorrect as the Log property should be used to specify the name of the event log.
C: This is incorrect as this is a redundant operation and the EventLog object is already pointing to Certkiller - WS11.
D: This step is almost what you require but the property of the EnableRaisingEvents should be set to True.

QUESTION 13

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 application that will be used for publishing its own custom performance counter.

You additionally require the value of a performance counter to increase by 5 and must minimize the amount of code needed to write.

What should you do?

- A. Use the NextValue method.
- B. Use the Decrement method.
- C. Use the Increment method.
- D. Use the IncrementBy method.

Answer: D

Section: (none)

Explanation/Reference:

Explanation: To have the value of a counter decreased by the desired amount the best choice of method requiring the least amount of code would be the IncrementBy method.

Incorrect Answers:

A: This is the code used to return the value of the counter and should not be used in the scenario.

B: The method is used if you want to have the value decreased and in the scenario an increase is needed.

C: This method is used to only increase the value of the counter by one and should not be used.

QUESTION 14

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Windows application that provides a user interface similar to Microsoft Excel and allows users to manage their expenses.

You recently wrote a wrapper around the expense management application which performs security checks.

If the users have the sufficient rights the wrapper application launches the expense management application, if no sufficient rights the application should be forced to close.

You must decide which method of the Process class to use.

What should you do?

- A. Use the Kill method.
- B. Use the Close method.
- C. Use the Dispose method.
- D. Use the CloseMainWindows method.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: To successfully have an application forcefully close or shutdown the Kill method should be used as it forces an immediate termination of the process.

Incorrect Answers:

B: This method should not be used as the Close method is used to free resources associated with the

application process.

C: This method should not be used in the scenario as it is generally used to implement cleaning of unmanaged resources.

D: This method should not be used as this method requests that the application be closed and we require closing the application forcefully.

QUESTION 15

You work as an application developer at Certkiller .com. You have just completed

the creation of an application that receives order data from Certkiller .com's partner company in XML format.

The XML has to be utilized to create an Order object that is consumed by the new application.

The following exhibit displays an example of Certkiller .com's partner company's XML data:

```
<?xml version="1.0" encoding="utf-8"?>
<Order id="101">
  <Shipping>
    <Instructions>
      Come to front door and ring door bell.
      No other options.
    </Instructions>
  <Address>
    <Street>536 Certkiller Lane</Street>
    <City>Miami</City>
    <State>FL</State>
    <Zip>70536</Zip>
  </Address>
</Shipping>
<Date>2006-07-12T00:00:00-04:00</Date>
<Details>
  <SalesProduct InStock="true" Taxable="true">
    <Name>Lounge Suite</Name>
    <Quantity>1</Quantity>
    <Price>200.00</Price>
  </SalesProduct>
  <Product InStock="false">
    <Name>Plasma Television</Name>
    <Quantity>2</Quantity>
    <Price>26.999.00</Price>
  </Product>
</Details>
</Order>
```

You plan to use the XmlSerializer class to deserialize the XML data into an Order object.

When you learn that Certkiller .com's partner company's XML also contains Shipping object data, you decide to deserialize the shipping object after the Shipping element is detected during deserialization.

To achieve this, you need to use a certain event of the XmlSerializer class.

What event should you use?

- A. UnknownElement
- B. **UnknownNode**
- C. UnreferencedObject
- D. UnknownAttribute

Answer: B

Section: (none)

Explanation/Reference:

Explanation: The UnknownNode event is fired when an unexpected element or node is detected that does not map to the XmlSerializer object's expected type. The UnknownNode event included the XmlNodeEventArgs, which allows access to the entire node of the XML data. This would allow easy deserialization for the Shipping object.

Incorrect Answers:

A, C, D: These options would not allow easy deserialization for the Shipping object.

QUESTION 16

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 remoting application. Your computer system relies on run-time type validation.

You are required to deserialize a remote stream by using the BinaryFormatter class in your application whilst you configure the BinaryFormatter object

to protect against any deserialization attacks by deserializing only certain types associated with only the most basic remoting functionality.

What should you do?

- A. The TypeFormat property should be set to FormatterTypeStyle.TypesAlways
- B. The TypeFormat property should be set to FormatterTypeStyle.TypesWhenNeeded
- C. The FilterLevel property should be set to TypeFilterLevel.Full
- D. The FilterLevel property must be set to TypeFilterLevel.Low

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The best choice for you in the scenario would be to use the FilterLevel property of the BinaryFormatter object set to TypeFilter.Low which deserializes only the most basic remoting functionality helping to protect against deserialization attacks.

Incorrect Answers:

A, B: The setting can not be used to set the deserialization of types because it just configures how the types are laid out in the deserialiazation stream.

C: This setting should no be used as you will be deserializing all types and this offers no protection against deserialization attacks in the scenario.

QUESTION 17

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 geographical information system for the company and create a class named Certkiller Code.

You are required to serialize all public and non-public data of the Certkiller Code class whilst you ensure that you produce the smallest byte stream

so that the smallest load is placed upon network resources.

What should you do?

- A. The XmlSerializationWriter class should be used
- B. The XmlSerializer class should be used
- C. The BinaryFormatter class should be used
- D. The SoapFormatter class should be used

Answer: C

Section: (none)

Explanation/Reference:

Explanation: To successfully serialize all the public and non-public data you should make use of the BinaryFormatter class because in addition the BinaryFormatter class produces the most compact byte stream compared to other serialization classes.

Incorrect Answers:

A, B: The XmlSerializer class should not be used as this class only serializes public properties and fields and the XmlSerializationWriter class is used to controls serialization by using the XmlSerialization class and fails to meet requirements.

D: The SoapFormatter class could be used as it will allow you to serialize public and non-public data but the result of the stream will be a verbose and will consume more network resources.

QUESTION 18

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 financial application and are busy developing a module that backs up the critical data on a separate hard drive.

You are required to decide which properties of the DriveInfo class to use and find the type of file system like FAT or NTFS and the drive free space and the user disk quota should be ignored by the application.

What should you do?

- A. Use the DriveFormat and TotalFreeSpace properties of the DriveInfo class.
- B. Use the DriveType and AvailableFreeSpace properties of the DriveInfo class.
- C. Use the VolumeLabel and TotalSize properties of the DriveInfo class.
- D. Use the DriveType and TotalSize properties of the DriveInfo class.
- E. Use the DriveFormat and AvailableFreeSpace properties of the DriveInfo class.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The only choice that would work with your requirement is the DriveFormat and TotalFreeSpace properties of the DriveInfo class; this will display what you need.

Incorrect Answers:

B: The DriveType property should not be used as it only specifies whether the drive is a DVD ROM or fixed drive etc. The AvailableFreeSpace property should also not be used as the user disk quota would be taken into account.

C: The VolumeLabel property should not be used in the scenario as it is used to give a name to the fixed disk. The TotalSize property should also not be used as it will specify the entire disk space not just free space.

D: The DriveType property should not be used as it only specifies whether the drive is a DVD ROM or fixed drive etc.

E: The AvailableFreeSpace property should not be used as the user disk quota would be taken into account.

QUESTION 19

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 data analysis application.

You have no information about the inherent structure of a file when it is supplied to the program for reading data.

You are required to read the contents of the file byte-by-byte and make use of a custom algorithm to find its format whilst selecting a class

that allows you to read the files contents byte-by-byte.
What should you do?

- A. **Use the FileStream class.**
- B. Use the BinaryReader class.
- C. Use the StreamReader class.
- D. Use the StringReader class.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The purpose and function of the FileStream class is to allow the user to be able to view the required files byte-by-byte.

Incorrect Answers:

B: The BinaryReader class is use full if you know the binary format for the data to read but should not be considered for use in the scenario.

C: This method is use full if you want to read character data in a particular encoding, but is not useful for reading any other data.

D: This class is used for reading text from a string and is not use full for reading any other data.

QUESTION 20

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 text-processing application. You have access to an array of bytes named ckArray that contains your data.

You are busy writing code that will be used to write the contents of the array to a disk file.

If you are done with the write operation you also display the contents of the stream on the console to make sure that the write operation completes successfully.

The code segment to read and write from the stream is shown below and the line numbers are reference only:

```
01: Using fStream As FileStream = New FileStream("ckFile.txt", FileMode.Create)
02: For i As Integer = 0 To ckArray.Length
03: fStream.WriteByte(ckArray(i))
04: Next i
05: 'Add code segment here
06: For i As Integer = 0 To fStream.Length
07: Console.WriteLine(fStream.ReadByte())
08: Next i
09: End Using
```

You add the appropriate code at line 05 to correctly print the contents of the stream.
What segment should you add?

- A. fStream.Seek(0, SeekOrigin.End)
- B. fStream.Position = fStream.Length
- C. fStream.Seek(0, SeekOrigin.Current)
- D. **fStream.Seek(0, SeekOrigin.Begin)**

Answer: D

Section: (none)

Explanation/Reference:

Explanation: Because after every write operation is completed you need to reposition the stream so that you

can read the contents from the beginning which is done with the statement in the answer, the first parameter will specify the offset, the second the reference point for the seek operation and the value SeekOrigin.Begin indicates that the reader should be positioned at the beginning of the stream.

Incorrect Answers:

A, C: The method in the statement is incorrect because you are referencing the end or the current part of the stream which you are trying to manipulate.

B: This statement should not be used because it sets the current position of the stream to its length effectively referencing the end of the stream.

QUESTION 21

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 banking Windows Forms application and are busy working on a function that retrieves the images of cancelled checks and displays them on the form. You currently have access to a method that reads the images from Microsoft SQL server as a series of bytes.

You are required to select a class that allows you to transfer the image from SQL Server to the Windows Forms application whilst your solution reduces the need of a temporary buffers and files

What should you do?

- A. **Use the MemoryStream class.**
- B. Use the NetworkStream class.
- C. Use the FileStream class.
- D. Use the BufferedStream class.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: With the given scenario objective you should use the MemoryStream class which allows you to read the image data in memory and stream it to a Windows Forms application without creating any temporary buffers or files.

Incorrect Answers:

B: There is no connection established directly to the SQL Server database so using this option is out of the question.

C, D:

The streaming class in question in this option is incorrect because both require the creation of temporary files or buffers.

QUESTION 22

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 graphical analysis application.

You are about to save a graphical object from the application which is a collection of x and y points, each represented by using a single precision floating point number.

You are required to keep the disk space usage to a minimum by the saved object.

What should you do?

- A. Use the TextWriter class.
- B. Use the StreamWriter class.
- C. Use the StringWriter class.
- D. **Use the BinaryWriter class.**

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The BinaryWriter class is used to store data in a binary format, which is used to provide the most compact format for storing data among the given classes.

Incorrect Answers:

A, B, C: The classes in question all save or store data in the text format, which will require more space than the binary format and therefore should not be used in the scenario.

Explanation: To successfully read the user's preferences you should make use of the IsolatedStorageFile.

GetUserStoreForAssembly method should be used. The method retrieves assembly-specific and user-specific data from the isolated storage.

Incorrect Answers:

A: This method should not be used in the scenario as it is designed too retrieve isolated storage that is application domain and assembly specific. B, C: The settings in question should not be used because the methods are machine-scoped rather than user scoped.

QUESTION 23

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windows XP Professional client computer named Certkiller -WS554 as your development computer.

You are developing a .NET Framework 2.0 application on Certkiller -WS554. You write the following code in the application line numbers are for reference only:

```
01: Public Function ProcCount() As Integer
02: Dim envPerm As EnvironmentPermission = _
03: New EnvironmentPermission( _
04: EnvironmentPermissionAccess.Read, _
05: "NUMBER_OF_PROCESSORS")
06: 'Add code segment here
07: Return Environment.ProcessorCount
08: End Function
```

The ProcCount method in the code will be used to return the number of processors on the computer running the code and the implementation of the method is completely transparent to the callers of the methods. You ensured that the ProcCount method has been granted permission to access environment variables and the callers to the code may not have permission to access the variables. The classes in the other assemblies are required to be able to successfully call the ProcCount method. You must add code at line 06 to override the security check whilst you ensure that any code you write does not affect the permissions that your code already has.

What code segment should you add?

- A. envPerm.PermitOnly()
- B. envPerm.Demand()
- C. envPerm.Deny()
- D. envPerm.Assert()

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The envPerm.Assert() method should be used in the scenario because the method allows your code and any code that you call to perform actions that your code has permissions to perform however the callers may not have permissions to perform.

Incorrect Answers:

- A: The PermitOnly method should not be used in the scenario because it will result to the same action as calling Deny on all permissions other than the permission P and this will affect other permissions.
- B: This method should not be considered for use in the scenario because the Demand method requires all the callers to have permissions to perform the specific action.
- C: The Deny method should not be considered for usage in the scenario because the method will explicitly cause the Permission P to be denied and you are required to ensure permissions are applied to the code.

· Diesmal NICHT Demand !!!

QUESTION 24

You work as an application developer at Certkiller .com. A fellow developer named Amy Walsh recently created an assembly that implements a custom permission set.

Certkiller .com has asked you to test this assembly.

You start by copying the assembly to a test server named Certkiller -SR15 that has the Microsoft .NET 2.0 Framework installed.

You then log on to the Certkiller -SR15 as a member of the local Administrators Windows group.

You run the assembly, and receive a security exception.

You perform a brief analysis of the security issues involved, and find that the assembly has not been assigned the appropriate permissions to run.

You need to ensure that this assembly runs.

What should you do?

- A. Use the permview.exe tool to modify the assembly's granted permissions.
- B. Use the sn.exe tool to modify the assembly's granted permissions.
- C. Use the caspol.exe tool to modify the assembly's granted permissions.
- D. Use the gacutil.exe tool to modify the assembly's granted permissions.

Answer: C

Section: (none)

Explanation/Reference:

Explanation: The caspol.exe command-line tool allows users to modify security permissions, permission sets, and code groups for an assembly at the machine, user, and enterprise policy levels.

Incorrect Answers:

A: The permview.exe tool only allows users to view declarative security of an assembly.

B: The sn.exe tool allows developers to create a strong-named asymmetric key pair for strong-named assemblies.

D: The gacutil.exe tool allows users to manage the contents of the global assembly and download cache.

QUESTION 25

You work as an application developer at Certkiller .com.

Certkiller .com has a test server named Certkiller -SR09 that is frequently used by other Certkiller .com developers to test assemblies and applied security policies.

You have just completed creating an assembly and want to test it on Certkiller -SR09.

You need to ensure that all security policies on Certkiller -SR09 are reset to their default settings.

What should you do?

- A. Run the caspol all -rollback command.
- B. Run the caspol all -reset command.
- C. Run the machine all -rollback command.
- D. Run the machine all -reset command.

Answer: B

Section: (none)

Explanation/Reference:

Explanation: The caspol.exe command-line tool allows users to modify security permissions, permission sets, and code groups for an assembly at the machine, user, and enterprise policy levels. The reset switch will set the specified security policy or policies back to their default state. The all switch refers to machine, user, and enterprise policy levels.

Incorrect Answers:

A, C: The rollback switch does not exist for the caspol.exe tool.

D: This option will not set all security policies back to their default state.

QUESTION 26

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 application and are about to examine the code groups in machine, user, and enterprise policies.

The user security policy file is located in c:\ Certkiller \config\ Certkiller Security.config and belongs to a user other than the currently logged on user.

You are required to use code access security policy tool to inspect the security policy and need the required command.

What should you do?

- A. Run the caspol -customall -resolvegroup "c:\ Certkiller \config\ Certkiller Security.config" command.
- B. Run the caspol -customer "c:\ Certkiller \config\ Certkiller Security.config" -listgroups command.
- C. Run the caspol -customer -resolvegroup "c:\ Certkiller \config\ Certkiller Security.config" command.
- D. Run the caspol -customall "c:\ Certkiller \config\ Certkiller Security.config" -listgroups command.

Answer: D

Section: (none)

Explanation/Reference:

Explanation: Since the -customall option is used to specify that the command applies to the enterprise, machine and custom user policy stored in the

"c:\ Certkiller \config\ Certkiller Security.config file making this the correct option to use in the scenario. The -listgroup option is used to specify the code groups in the specified policies that need to be listed.

Incorrect Answers:

A, C: The usage of the -resolvegroup option in the scenario is incorrect because the -resolvegroup option is used to show the code groups that the specified user belongs to.

B: The option in question in this answer should not be used in the scenario because the option is used to specify only the code groups of the specified user policy.

QUESTION 27

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windows XP Professional client computer named Certkiller -WS536 as your development computer.

You are developing a .NET Framework 2.0 application on Certkiller -WS536. You create an assembly that implements a custom security object.

The assembly resides in the CKPerm.exe file. The CKPerm.exe references the classes in the BasePerm.exe assembly.

You are required to write a script that will be used to add the assembly to the full trust assembly list of the currently logged on user whilst the user

will never have write access to the machine policy file.

What should you do? (Choose two)

- A. Run the caspol -addfulltrust CKPerm.exe command.
- B. Run the caspol -addfulltrust BasePerm.exe command.
- C. Run the caspol -enterprise -addfulltrust BasePerm.exe command.
- D. Run the caspol -enterprise -addfulltrust CKPerm.exe command.
- E. Run the caspol -machine -addfulltrust BasePerm.exe command.
- F. Run the caspol -machine -addfulltrust CKPerm.exe command.

Answer: AB

Section: (none)

Explanation/Reference:

Explanation: The caspol.exe tool is used to allow you to modify the code access security policy at the user level, machine level as well as the enterprise level and using the -addfulltrust option adds an assembly that implements a custom security object to a list of fully trusted assemblies.

Incorrect Answers:

C, D, E, F: In the event that there is no policy level specified the caspol.exe tool checks

if the user has write permission to the machine policy file if so the machine level security policy will be used other wise the user-level policy will be used.

QUESTION 28

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windos XP Professional client computer named Certkiller -WS536 as your development computer.

You are developing a .NET Framework 2.0 application on a Certkiller -WS536.

You must add a new code group which adds FullTrust permissions to the code originating from www. Certkiller .com.

You are required to use the code access security policy tool (Caspol.exe to add the code group whilst you ensure that you only affect the user level policy for the user running Caspol.exe

What should you do?

- A. Run the caspol -user -addgroup -site www. Certkiller .com FullTrust command.
- B. Run the caspol -user -addgroup -zone Internet command.
- C. Run the caspol -user -addgroup -url www. Certkiller .com FullTrust command.
- D. Run the caspol -user -addgroup -pub -cert test.cer FullTrust command.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The correct thing to do in the scenario would be to make use of the segment that used -user to specify only the user level policy, the -addgroup argument to add a new code group to the code hierarchy and the -site argument that targets code that originated only from www. Certkiller .com.

Incorrect Answers:

B: This method should not be used in the scenario because it is used to simply add a new code group that is a member of the Internet Zone.

C: This command should not be used in the scenario because it should be used to specify a complete url including the protocol like http:// etc.

D: The command should not be used in the scenario as the method does not specify a Web site and the -pub argument is used to identify the software publisher.

QUESTION 29

You work as an application developer at Certkiller .com.

Certkiller .com has been contracted by a local doctor's clinic to develop a client application using Microsoft .NET 2.0 that sends patient visit information to a remote server at the clinic's main office.

This data must be transmitted via a secure network stream because it contains patient protected health information (PHI). The data will be sent from a windows application client on the doctor's notebook computer to a windows service hosted on a remote server. Both of these applications employ a certificate store for network identification.

You need to create a secure data stream by adding certain classes to the client application.

What classes should you add? (Choose three)

- A. The MD5CryptoServiceProvider class.
- B. The X509Certificate class.
- C. The NetworkStream class.
- D. The SslStream class.
- E. The TcpListener class.
- F. The TcpClient class.

Answer: BDF

Section: (none)

Explanation/Reference:

Explanation: You should use the X509Certificate class to store the server certificate and encrypt data, the SslStream

class to create a secure channel, and the TcpClient class to establish the connection with the server application.

Incorrect Answers:

A: Using this option would only hash the data using the MD5 algorithm.

C: Using this option would not necessarily create a secure channel.

E: This class is used by the server application.

QUESTION 30

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 application that will be used for transmitting contents over the Internet.

You need to encrypt a data file before transmitting the file. The encryption is required to prevent any spoofing of the identity of the publisher of the data file.

You decide to sign the data using the publisher's private key. You encrypt the data with the publisher's public key as well.

The receiver of the file will use a private key that only he knows to decrypt the data and the receiver has access to the publisher's public key also.

The intended receiver of the file should be able to decrypt the encrypted file after it was received through the Internet transmission whilst the receiver should additionally be able to detect if the contents of the data file were tampered with.

What should you do?

- A. The RSACryptoServiceProvider class should be used in the scenario
- B. The RijndaeManaged class should be used in the scenario
- C. The SHA1CryptoServiceProvider class should be used in the scenario
- D. The SHA1Managed class should be used in the scenario

Answer: A

Section: (none)

Explanation/Reference:

Explanation: Since the RSACryptoServiceProvider class implements an asymmetric cryptography algorithm that makes use of a set of related keys to encrypt and decrypt data this class is the correct choice in the scenario.

Incorrect Answers:

B: This class should not be used in the scenario because the RijndaeManaged class implements a symmetric cryptography algorithm that uses a single shared secret key for encrypting and decrypting data.

C, D: The classes in these two options should not be used in the scenario because the classes both implement a hash algorithm that can be used to detect tampering but they can not be used to establish the identity of the data file's publisher.

QUESTION 31

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windwos XP Professional client computer named Certkiller -WS554 as your development computer.

You are developing a .NET Framework 2.0 application on Certkiller -WS536. The application will be used to send data over the internet.

You are required to ensure that the sent data is not modified or tampered with during transmission, the secrecy of the data transmission is not considered important.

You recently decided to implement a hash value for the data by using a secret key and transmit the data along with the hash value.

The receiver of the data should be able to detect whether the data or the hash value has been modified whilst the receiver should have access to the secret key that was used for computing the hash value.

You must additionally ensure that a key sequence of 160 bits should be acceptable.

What should you do?

- A. The DESCryptoServiceProvider class should be used to encode the data prior to transmission
- B. The HMACMD5 class should be used to encode the data prior to transmission
- C. The MACTripleDES class should be used to encode the data prior to transmission
- D. The **HMACSHA1** class should be used to encode the data prior to transmission

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The SHA1 has function is used by the HMACSHA1 class to compute a Has-based Message Authentication Code (HMAC) and additionally HMAC can be used to check if a message has been modified during the transmission.

Incorrect Answers:

A: The class should not be considered for use in the scenario because the class is used to encode the data to protect and maintain its secrecy.

B: The class should not be used because the scenario requires a hash sequence of 160 bits and the class only provides a hash sequence of 128 bits.

C: The class should never be considered for use in the scenario because the class uses a secret key of length 16 or 24 bytes whilst producing a hash sequence of 8 bytes.

QUESTION 32

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windwos XP Professional client computer named Certkiller -WS536 as your development computer.

You are developing a .NET Framework 2.0 application on Certkiller -WS536. You write the class named TestScrapData.

You are required to configure the TestScrapData class and limit its access to only the code originating from a

specific Web site, www. Certkiller .com and its subdomains.

The Web sites will be required to be access using HTTP, HTTPS and the FTP protocols.

You are required to additionally configure code access permissions for the TestScrapData class

What should you do?

- A. The **SitIdentityPermission class** should be used in the scenario.
- B. The PublisherIdentityPermission class should be used in the scenario.
- C. The ZoneIdentityPermission class should be used in the scenario.
- D. The UriIdentityPermission class should be used in the scenario.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: To successfully achieve your scenario objective you must use the SitIdentityPermission class to configure code access permissions for the callers from a specific Web site.

Incorrect Answers:

B: This class should not be used as it is designed for usage to configure permissions based on the identity of the software publisher.

C: This class should not be used because it is used to configure code access permissions for the zone where the code originates and the Internet zone may contain to many Web-sites.

D: This class should not be considered for use as it is used to configure access permissions for a Uniform Resource Locator (URL).

QUESTION 33

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 application that will be deployed throughout the network on all workstations which are all networked as part of a Microsoft Windows domain.

The application you wrote requires certain permissions in order to run.

As the domain administrator you configure the enterprise policy to grant the required permissions to the application which may be part of one or more code group.

You must ensure that your application receives the sufficient permissions to run at

all times whilst you override any policy changes made by the end users that lower the permissions required by the application to run.

What should you do?

- A. **The LevelFinal attribute should be applied to the application's code group on the enterprise policy level.**
- B. The Exclusive attribute should be applied to the application's code group on the user policy level.
- C. The LevelFinal attribute should be applied to the application's code group on the user policy level.
- D. The Exclusive attribute should be applied to the application's code group on the enterprise policy level.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The FinalLevel attribute should be applied in the scenario to the application's code group on the enterprise level as this is the highest level of policy.

Incorrect Answers:

B, D: The Exclusive attribute should not be considered in the scenario for usage as the runtime will never grant permissions associated with the code group marked with the Exclusive attribute.

C: This should not be done as you would enable the end users the capability of changing or altering security settings that will restrict the applications execution.

QUESTION 34

You work as an application developer at Certkiller .com. You are currently creating an application that requires role-based security.

You are planning to utilize a database to store the user accounts and group membership data. You need to ensure that users are able to log on and off.

You also need to ensure that the application you have created tracks the user accounts of these users, and restrict or allow access to code based on their group membership.

You need to achieve this objective with as little developer effort as possible.

What should you do to implement role-based security?

- A. Inherit from the GenericIdentity and GenericPrincipal classes.
- B. Make use of **GenericIdentity and GenericPrincipal objects**.
- C. Implement the IIdentity and IPrincipal interfaces.
- D. Make use of WindowsIdentity and WindowsPrincipal objects.

Answer: B

Section: (none)

Explanation/Reference:

Explanation: in this scenario, the GenericIdentity and GenericPrincipal objects could be implemented as follows:

```
GenericIdentity curIdentity = new GenericIdentity ("CurrentUser"); string [] roles = { "Users", "Administrators" };  
thread.CurrentPrincipal = GenericPrincipal (curIdentity, roles);
```

This code instantiates a GenericIdentity object based upon a user name as a string object, instantiates a string array representing the roles to which that user belongs, instantiates a GenericPrincipal object specifying the GenericIdentity object and string array of roles as arguments, and assigns the new GenericPrincipal object to the CurrentPrincipal property of the current thread. By assigning the new principal to the CurrentPrincipal property of the current thread, role membership checks can be performed using the IsInRole method. Incorrect Answers:

A, C: These options require more developer effort than necessary.

D: The WindowsIdentity and WindowsPrincipal classes are intended for use with windows domain stored accounts and groups only.

QUESTION 35

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windows XP Professional client computer named Certkiller -WS554 as your development computer.

You are developing a .NET Framework 2.0 application on Certkiller -WS554.

You are trying to port an old Certkiller .com management application that was written in unmanaged Windows code with no COM interfaces.

The application you are developing makes calls to the old Certkiller .com management unmanaged library named BillPerformance.dll.

You are required to make a call to the GetPerformanceScore method of the unmanaged Performance.dll library. What should you do?

- A. The Type Library Exporter tool (tlbexp.exe) should be used.
- B. The Type Library Importer tool (tlbimp.exe) should be used.
- C. The Assembly Registration tool (regasm.exe) should be used.
- D. The **Platform Invoke (DllImportAttribute)** should be used.

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The feature Platform Invoke is used to allow you to call methods that are in unmanaged libraries but you need to declare the unmanaged method in the managed code using the extern and static keywords with the DllImport attribute which is used to specify the unmanaged library.

Incorrect Answers:

A, B, C: The tool should not be considered for usage in the scenario because the unmanaged dll file is not in COM and it only processes COM type libraries.

QUESTION 36

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windows XP Professional client computer named Certkiller -WS554 as your development computer.

You are developing a .NET Framework 2.0 application on Certkiller -WS554.

The application's assembly is named Certkiller App and is stored in Certkiller App.exe.

You are busy using .NET Framework's Strong Name tool to generate a pair for Certkiller App.exe shown below:

```
Sn.exe -k Certkiller AppKey
```

You are required to use the key pair to build the Certkiller App.exe as a strong named assembly.

What should you do?

- A. The **AssemblyKeyFileAttribute** class should be used.
- B. The AssemblyDelaySignAttribute class should be used.
- C. The AssemblyConfigurationAttribute class should be used.
- D. The AssemblyKeyNameAttribute should be used.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The Strong name tool is used to allow you to generate and manage keys for the strong name signing and by using the -k switch the tool generates a new key pair and stores it in the specified file. So using the AssemblyKeyFileAttribute is the correct way to go in the scenario.

Incorrect Answers:

B: This class should not be considered for use as it is designed to specify whether or not delayed signing should be used.

C: The class should not be used in the scenario because the class is used to specify a build configuration for an assembly.

D:

This class should not be used in the scenario because it is used to specify the name of a key container that should be used.

QUESTION 37

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windows XP Professional client computer named Certkiller -WS554 as your development computer.

You are developing a .NET Framework 2.0 application on Certkiller -WS554. The application will allow Certkiller .com users to send e-mails.

The Certkiller .com users must be able to send e-mail containing information like budget documents and images.

You decide to use the .NET Framework 2.0 Attachment class to create the e-mail attachments within your application.

You are required to specify the content in an attachment by using the attachment class constructors.

What should you do? (Choose two)

- A. The **Stream object attachment class** should be used.

- B. The **String object attachment class** should be used.
- C. The Image object attachment class should be used.
- D. The XmlDocument object attachment class should be used.
- E. The SqlDataReader object attachment class should be used.

Answer: AB

Section: (none)

Explanation/Reference:

Explanation: In the scenario the Attachment constructors allow you to create attachments from a filename, a String object, or a Stream object.

Incorrect Answers:

C: This method is incorrect and should not be used in the scenario because the Image object Attachment class cannot directly use an Image object.

D: This method is incorrect and should not be used in the scenario because the XmlDocument Attachment class cannot directly use an XmlDocument object.

E: This method is incorrect and should not be used in the scenario because the SqlDataReader Attachment class cannot directly make use of a SqlDataReader object.

QUESTION 38

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You use a Windows XP Professional client computer named Certkiller -WS554 as your development computer.

You are developing a .NET Framework 2.0 application on a Certkiller -WS554.

The application will be used globally and must be able to represent characters in the following languages: English, Chinese Traditional, Hebrew and Tamil.

Your application is required to provide error detection for invalid sequences of characters whilst your application must also optimize storage.

What should you do?

- A. Encode the characters in your application using the **UTF8Encoding class**.
- B. Encode the characters in your application using the UTF7Encoding class.
- C. Encode the characters in your application using the UTF32Encoding class.
- D. Encode the characters in your application using the UTF16Encoding class.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: To successfully enable error detection and make the class instance more secure you should make use of the UTF8Encoding class in the scenario.

Incorrect Answers:

B: The Encoding class used in this option UTF7Encoding does not provide any error detection and should not be used in the scenario.

C, D: The Encoding classes in these options should not be used in the scenario because the UTF16Encoding class represents each character as a sequence of one to two 16-bit integers and the UTF32Encoding represents each code point as a 32-bit integer.

QUESTION 39

You work as the application developer at Certkiller .com. To get information on a specific method named myMethod, you use Reflection.

You need to find out if myMethod can be accessed from a derived class.

Which of the following properties should you call from the myMethod class?

- A. Call the IsAssembly property.
- B. Call the IsVirtual property.
- C. Call the IsStatic property.
- D. **Call the IsFamily property.**

Answer: D

Section: (none)

Explanation/Reference:

Explanation: The IsFamily property determines whether the method is accessible only to the class and descendant classes.

IsAssembly determines accessibility from within the assembly.

IsVirtual indicates whether the method is virtual.

IsStatic indicates whether the method is static.

QUESTION 40

You work as the application developer at Certkiller .com. You create a new class that uses unmanaged resources, but which still has references to managed resources on other objects.

You want users of the new class to be able to explicitly release resources when the class instance is no longer required.

What should you do next?

Choose the three actions which you should perform. Each correct answer presents only part of the complete solution.

- A. Define the existing class so that it inherits from the WeakReference class.
- B. Define the existing class so that **it applies the IDisposable interface.**
- C. Create a new class destructor which calls methods on other objects to release the managed resources.
- D. **Create a new class destructor that releases the unmanaged resources.**
- E. Create a new Dispose method that calls System.GC.Collect to force garbage collection.
- F. Create a new Dispose method that **releases unmanaged resources and which also calls methods on other objects to release the managed resources.**

Answer: BDF

Section: (none)

Explanation/Reference:

Explanation:

It is necessary to implement the IDisposable interface if you need to release unmanaged resources or want explicit control of the life of managed resources. A class destructor should be created to release the unmanaged resources and this should be called from within the Dispose method. The dispose method should also release the managed resources.

Inheriting from WeakReference would result in the garbage collector releasing resources even though there may be valid references.

The managed resources should be released in the Dispose method. System.GC.Collect could be used, however it is more efficient to manually release the managed resources. The GC incurs overhead and may have only recently been called anyway. The question states resources should be released explicitly.

QUESTION 41

You work as the application developer at Certkiller .com. You are developing a debug build of an existing application.

You want to locate a specific line of code which resulted in the exception occurring.

Choose the property of the Exception class that you should use to accomplish the task.

- A. Data property
- B. Message property
- C. **StackTrace property**
- D. Source property

Answer: C

Section: (none)

Explanation/Reference:

Explanation: The StackTrace property provides a listing of the current call stack.

Information such as the method calls and line numbers are shown. Data will return additional user-defined information about the exception Message describes the current exception but will not give details about the source code line number.

Source represents the name of the application or object that caused the error.

QUESTION 42

You work as the application developer at Certkiller .com.

You need to modify the code of an application.

The application uses two threads named thread A and thread B. You want thread B to complete executing before thread A starts executing.

How will you accomplish the task?

- A. Define thread A to run at a lower priority.
- B. Define thread B to run at a higher priority.
- C. Implement the **WaitCallback** delegate to synchronize the threads.
- D. Call the Sleep method of thread A.
- E. Call the SpinLock method of thread A.

Answer: C

Section: (none)

Explanation/Reference:

Explanation:

Note: Some confusion why the answer is C. Using the ThreadPool and WaitCallBack will not synchronise the threads, they will run in the background in parallel

QUESTION 43

You work as the application developer at Certkiller .com.

You are developing a new application named Certkiller App12.

Certkiller App12 must be configured to receive events asynchronously.

You define two instances named Wq1EventQuery and ManagementEventWatcher respectively.

Wq1EventQuery will list those events and event conditions for which Certkiller App12 should respond.

ManagementEventWatcher will subscribe to all events matching the query.

Which two additional actions should you still perform to enable Certkiller App12 to receive events asynchronously?

Choose two correct answers. Each answer presents only part of the complete solution.

- A. **Call the Start method of the ManagementEventWatcher** to start listening for events.
- B. To configure a listener for events, **use the EventArrived event of the ManagementEventWatcher**.
- C. To wait for the events, use the WaitForNextEvent method of the ManagementEventWatcher.
- D. Create an event handler class that contains a method which receives an ObjectReadyEventArgs parameter.

E. Use the Stopped event of the ManagementEventWatcher to configure a listener for events.

Answer: AB

Section: (none)

Explanation/Reference:

Explanation: The ManagementEventWatcher will not start to listen (hence the app cannot respond to Async messages) until the start method is called. Once the ManagementEventWatcher is listening it will trigger an EventArrived event every time an event occurs that matches the query. You should provide a listener for the EventArrived event to perform any custom handling.

WaitForNextEvent method is synchronous i.e the current thread will wait until a matching event occurs. ObjectReadyEventArgs holds data for the ObjectReadyEvent. The Stopped event is triggered when the ManagementEventWatcher cancels its subscription i.e is no longer interested in receiving notification of events.

QUESTION 44

You work as the application developer at Certkiller .com.

You are working on an application and want to use platform invoke services to call an unmanaged function from managed code.

How will you accomplish the task?

- A. **Create a class to store DLL functions. Create prototype methods by using the managed code.**
- B. Use COM to register the assembly. Reference the managed code from COM.
- C. Export a type library for the managed code.
- D. Import a type library as an assembly. Create instances of COM object.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: It is good practice to wrap the messy P-Invoke code with a .net class. The main benefit is to keep the client code tidy as the messy and cryptic code will be hidden away. Also better for maintenance e.g dll name or version changes. The question explicitly says the unmanaged code should be called with platform invoke services. Importing/exporting a type library is relevant for interoperation with COM.

QUESTION 45

You work as the application developer at Certkiller .com. You are working on an application named Certkiller App11.

Certkiller App11 must be configured to execute a series of mathematical computations simultaneously.

What should you do next to configure Certkiller App11 to execute a series of mathematical computations simultaneously?

- A. Configure the IdealProcessor property of the ProcessThread object.
- B. Configure the ProcessorAffinity property of the ProcessThread object.
- C. **Call the QueueUserWorkItem method** of the ThreadPool class for each calculation which should be performed by Certkiller App11.
- D. Configure the Process.GetCurrentProcess().BasePriority property to be High.

Answer: C

Section: (none)

Explanation/Reference:

Explanation: The ThreadPool class allows background tasks to run in parallel hence calculations can be queued to run as soon as a ThreadPool Worker thread becomes available. Because the ThreadPool can

manage many worker threads, calculations will run in parallel.

ProcessThread.IdealProcessor requests a preferred processor for the thread to run on, it will not however spawn a new thread - which is what is required here to enable concurrency.

ProcessorAffinity gets or sets the processors that this thread can be scheduled to run on. Process.BasePriority gets the base priority of the process.

QUESTION 46

You work as the application developer at Certkiller .com.

You are developing a strong-named assembly named Certkiller Ass3.

Certkiller Ass3 will be used by multiple applications.

You plan to frequently rebuild Certkiller Ass3 during the development lifecycle.

Whenever Certkiller Ass3 is rebuilt, you must ensure that it works as expected with all applications that will use it.

You must configure the computer that you are using to create Certkiller Ass3 so that all applications reference the latest build of Certkiller Ass3.

Choose the two actions which you should perform to achieve your goal.

Each correct answer presents only part of the complete solution.

- A. Create a **DEVPATH** environment variable which points to the build output directory for Certkiller Ass3.
- B. Include this XML element in the computer configuration file:
`<developmentMode developerInstallation="true"/>`
- C. Include this XML element in the computer configuration file:
`<dependentAssembly>
 <assemblyIdentity name=" Certkiller Ass3"
 publicKeyToken="32ab4ba45e0a69a1"
 language="en-US" version="*. *. *. *" />
 <publisherPolicy apply="no" />
</dependentAssembly>`
- D. Include this XML element in the configuration file of each application that must use Certkiller Ass3:
`<supportedRuntime version="*. *. *. *" />`
- E. Include this XML element in the configuration file of each application that must use Certkiller Ass3:
`<dependentAssembly>
 <assemblyIdentity name=" Certkiller Ass3"
 publicKeyToken="32ab4ba45e0a69a1"
 language="en-US" version="*. *. *. *" />
 <bindingRedirect newVersion="*. *. *. *" />
</dependentAssembly>`

Answer: AB

Section: (none)

Explanation/Reference:

Explanation: The developmentmode element in the machine configuration file tells the .net runtime to locate the assembly by using the DevPath environment variable. The SupportedRuntime element specifies which .net runtime versions the assembly supports.

The DependentAssembly element is used to encapsulate the binding policy and assembly location for each assembly.

QUESTION 47

You work as the application developer at Certkiller .com.

You are writing a method that will run through the credentials of the end user. Microsoft Windows groups must be used to authorize the user.

You must develop the code segment which will recognize if the user exists in the local group named Sales.

Choose the code segment that will do this.

- A. `WindowsIdentity currentUser = WindowsIdentity.GetCurrent();
foreach (IdentityReference grp in currentUser.Groups) {
NTAccount grpAccount = ((NTAccount)grp.Translate(typeof(NTAccount)));
isAuthorized = grpAccount.Value.Equals(Environment.MachineName + @"\Sales");
if (isAuthorized) break;
}`
- B. `WindowsPrincipal currentUser = (WindowsPrincipal)Thread.CurrentPrincipal;
isAuthorized = currentUser.IsInRole("Sales");`
- C. `GenericPrincipal currentUser = (GenericPrincipal) Thread.CurrentPrincipal;
isAuthorized = currentUser.IsInRole("Sales");`
- D. `WindowsPrincipal currentUser = (WindowsPrincipal)Thread.CurrentPrincipal;
isAuthorized = currentUser.IsInRole(Environment.MachineName);`

Answer: B

Section: (none)

Explanation/Reference:

Explanation: To check the role membership of the current Windows user, use the `IsInRole()` method of the `WindowsPrincipal` in the current thread. A it is a lot more complicated to iterate through all the groups the user belongs to and checking for matches. The `Principal` classes are for this very purposes and should be used. C uses `GenericPrincipal`. `WindowsPrincipal` should be used for windows accounts. There is an invalid cast from `WindowsPrincipal` to `GenericPrincipal`. D does not specify the group correctly.

QUESTION 48

You work as the application developer at Certkiller .com.

You are developing a new application named Certkiller App06.

Certkiller App06 will be used to transmit confidential financial information over the network.

To secure the confidential data, you create an `X509 Certificate` object named `certificate` and create a `TcpClient` object named `client`.

You must now create the code segment that creates an `SslStream` for communication by applying the Transport Layer Security 1.0 protocol.

Choose the code segment which you should use.

- A. `SslStream ssl = new SslStream(client.GetStream());
ssl.AuthenticateAsServer(
certificate, false, SslProtocols.None, true);`
- B. `SslStream ssl = new SslStream(client.GetStream());
ssl.AuthenticateAsServer(
certificate, false, SslProtocols.Ssl3, true);`
- C. `SslStream ssl = new SslStream(client.GetStream());
ssl.AuthenticateAsServer(
certificate, false, SslProtocols.Ssl2, true);`
- D. `SslStream ssl = new SslStream(client.GetStream());
ssl.AuthenticateAsServer(
certificate, false, SslProtocols.Tls, true);`

Answer: D

Section: (none)

Explanation/Reference:

QUESTION 49

You work as the application developer at Certkiller .com.

You are developing a new method that must encrypt confidential data.

The method must use the Data Encryption Standard (DES) algorithm. Your new method takes these parameters:

1. A byte array, named message, that must be encrypted by applying the DES algorithm.
2. A key, named key, which will be used to encrypt the data.
3. The initialization vector, named iv.

Once the data is encrypted, it must be added to the MemoryStream object.

Choose the code segment which will encrypt the specified data and add it to the MemoryStream object.

- A. `DES des = new DESCryptoServiceProvider();`
~~`des.BlockSize = message.Length;`~~
`ICryptoTransform crypto = des.CreateEncryptor(key, iv);`
`MemoryStream cipherStream = new MemoryStream();`
`CryptoStream cryptoStream = new CryptoStream(cipherStream, crypto, CryptoStreamMode.Write);`
`cryptoStream.Write(message, 0, message.Length);`
- B. `DES des = new DESCryptoServiceProvider();`
`ICryptoTransform crypto = des.CreateDecryptor(key, iv);`
`MemoryStream cipherStream = new MemoryStream();`
`CryptoStream cryptoStream = new CryptoStream(cipherStream, crypto, CryptoStreamMode.Write);`
`cryptoStream.Write(message, 0, message.Length);`
- C. `DES des = new DESCryptoServiceProvider();`
`ICryptoTransform crypto = des.CreateEncryptor();`
`MemoryStream cipherStream = new MemoryStream();`
`CryptoStream cryptoStream = new CryptoStream(cipherStream, crypto, CryptoStreamMode.Write);`
`cryptoStream.Write(message, 0, message.Length);`
- D. `DES des = new DESCryptoServiceProvider();`
`ICryptoTransform crypto = des.CreateEncryptor(key, iv);`
`MemoryStream cipherStream = new MemoryStream();`
`CryptoStream cryptoStream = new CryptoStream(cipherStream, crypto, CryptoStreamMode.Write);`
`cryptoStream.Write(message, 0, message.Length);`

Answer: D

Section: (none)

Explanation/Reference:

Explanation: Use the DesCryptoServiceProvider to create a new encryptor. Create a CryptoStream that encrypt directly to the MemoryStream and call the Write() method to perform the encryption.

A Uses a blocksize set to size of the entire message

B creates a decryptor instead of an encryptor.

C does not initialize the encryptor with the key and iv correctly.

QUESTION 50

You work as the application developer at Certkiller .com.

You have to create a new security policy for an application domain which must enforce the new Certkiller .com security policy.

You write the code segment to do this:

```
PolicyLevel policy = PolicyLevel.CreateAppDomainLevel();
PolicyStatement noTrustStatement = new PolicyStatement(policy.GetNamedPermissionSet("Nothing"));
PolicyStatement fullTrustStatement =
new PolicyStatement(
policy.GetNamedPermissionSet("FullTrust"));
```

You must now ensure that all loaded assemblies default to the Nothing permission set. In addition to this, when an assembly comes from a trusted zone, your security policy must grant the assembly the FullTrust permission set. You must create the code groups to do this. Choose the code segment which will achieve this objective.

- A. `CodeGroup group1 = new FirstMatchCodeGroup(new ZoneMembershipCondition(SecurityZone.Trusted), fullTrustStatement);`
`CodeGroup group2 = new UnionCodeGroup(new AllMembershipCondition(), noTrustStatement);`
`group1.AddChild(group2);`
- B. `CodeGroup group1 = new FirstMatchCodeGroup(new AllMembershipCondition(), noTrustStatement);`
`CodeGroup group2 = new UnionCodeGroup(new ZoneMembershipCondition(SecurityZone.Trusted), fullTrustStatement);`
`group1.AddChild(group2);`
- C. `CodeGroup group = new UnionCodeGroup(new ZoneMembershipCondition(SecurityZone.Trusted), fullTrustStatement);`
- D. `CodeGroup group = new FirstMatchCodeGroup(new AllMembershipCondition(), noTrustStatement);`

Answer: B

Section: (none)

Explanation/Reference:

QUESTION 51

You are writing a method that accepts a string parameter named message. Your method must break the message parameter into individual lines of text and pass each line to a second method named Process. Which code segment should you use?

- A. `StreamReader reader = new StreamReader(message);`
`Process(reader.ReadToEnd());`
`reader.Close();`
- B. `StreamReader reader = new StreamReader(message);`
`while (reader.Peek() != -1) {`
`string line = reader.Read().ToString();`
`Process(line);`
`}`
`reader.Close();`
- C. `StreamReader reader = new StreamReader(message);`
`Process(reader.ToString());`
`reader.Close();`
- D. `StreamReader reader = new StreamReader(message);`
`while (reader.Peek() != -1) {`
`Process(reader.ReadLine());`
`}`
`reader.Close();`

Answer: D

Section: (none)

Explanation/Reference:

Explanation: `StreamReader.ReadLine()` allows for lines to be read line by line.

A ReadToEnd() will read the entire stream.

B Read() will not read the line but only the next character.

C will not read from the message but will just give a string representation of the reader.

· ReadLine !!!

QUESTION 52

you have recently written the code shown below:

```
Hashtable emailAddresses = new Hashtable ();  
emailAddresses.Add ("Mia", "mia@ Certkiller .com");  
emailAddresses.Add ("Andy", "andy@ Certkiller .com");  
emailAddresses.Add ("Kara", "kara@ Certkiller .com");
```

You need to ensure that these e-mail addresses are stored in the Email.dat file so that you can load them again when the user restarts the application.

What should you do?

- A. Add the following code:
`FileStream stream = new FileStream ("Email.dat", FileMode.Create);
BinaryFormatter formatter = new BinaryFormatter ();
formatter.Deserialize(stream, emailAddresses);`
- B. Add the following code:
`FileStream stream = new FileStream ("Email.dat", FileMode.Create);
BinaryFormatter formatter = new BinaryFormatter ();
formatter.Serialize(stream, emailAddresses);`
- C. Add the following code:
`FileStream stream = new FileStream ("Email.dat", FileMode.Create);
stream.Serialize(emailAddresses);`
- D. Add the following code:
`FileStream stream = new FileStream ("Email.dat", FileMode.Create);
stream.WriteObject(emailAddresses);`

Answer: B

Section: (none)

Explanation/Reference:

This code instantiates a file stream, instantiates a BinaryFormatter object, and serializes the emailAddresses object to the Email.dat file. The FileStream constructor takes a file path string and FileMode enumeration as arguments. The Serialize method of the BinaryFormatter class takes two arguments, a stream and the object to be serialized.

The Serialize method uses the stream to write the object to the destination.

Incorrect Answers:

A: You should not add the code that invokes the Deserialize method of the BinaryFormatter class because you must serialize the object first. C D: You should not add the code fragments that do not instantiate the BinaryFormatter object because the WriteObject and Serialize methods do not exist in the FileStream class.

· Achtung die Frage meint Serialisierung und nicht Kontrolle mit Deserialisierung · dann ist es einfach oder !!!

QUESTION 53

Certkiller .com has a file server named Certkiller -SR07 that stores old inventory files. Certkiller .com has given you the task of creating an application to archive these old inventory files. The inventory files have to be compressed prior to being uploaded to Certkiller .com's Web server. You are currently writing a method that will receive a byte array and compress it into a new file. You need to ensure that a data corruption check takes place during the decompression process. What should you do?

A. Use the following code:

```
public void CompressFileWrite(string file, byte[] data){
    FileStream fs = new FileStream(file, FileMode.Create);
    DeflateStream cs = new DeflateStream( fs, Compressionmode.Compress, true);
    cs.Write (data, 0, data.Length);
    cs.Close();
}
```

B. Use the following code:

```
public void CompressFileWrite(string file, byte[] data){
    FileStream fs = new FileStream (file, FileMode.Create);
    GZipStream cs = new GZipStream( fs, Compressionmode.Compress, true);
    cs.Compress (data, 0, data.Length);
    cs.Close ();
}
```

C. Use the following code:

```
public void CompressFileWrite(string file, byte[] data){
    FileStream fs = new FileStream(file, FileMode.Create);
    DeflateStream cs = new DeflateStream( fs, Compressionmode.Compress, true);
    cs.Compress(data, 0, data.Length);
    cs.Close ();
}
```

D. Use the following code:

```
public void CompressFileWrite (string file, byte[] data){
    FileStream fs = new FileStream(file, FileMode.Create);
    GZipStream cs = new GZipStream( fs, Compressionmode.Compress, true);
    cs.Write(data, 0, data.Length);
    cs.Close();
}
```

Answer: D

Section: (none)

Explanation/Reference:

Explanation:

Incorrect Answers:

A, B, C: You should not use the code fragments that specify the DeflateStream class because this data format does not ensure that a data corruption check occurs during decompression. You should also not use the code that invokes the Compress method because no such method exists in the GZipStream or the DeflateStream classes.

- GZIP HAT data corruption check
- CompressionMode.Decompress bzw. CompressionMode.Compress · Read-Methode bzw. Write-Methode

QUESTION 54

You work as the application developer at Certkiller .com. Certkiller .com uses Visual Studio.NET 2005 as its application development platform.

You are developing an application that will be used to connect and control the behavior of existing services installed on a network server named Certkiller -SR01.

What should you do?

- A. Use the **MachineName** and **ServiceName** properties of the **ServiceController** class.
- B. Use the Site property of the ServiceController class.
- C. Use the Site property of the ServiceInstaller class.
- D. Use the ServiceName and DisplayName properties of the ServiceInstaller class.

Answer: A

Section: (none)

Explanation/Reference:

Explanation: The proper way to connect and control the behavior of existing services is by using the ServiceController class after which you are required to set two properties on it to identify the service to interact with. The MachineName property is used to define the computer Certkiller -SR01.

Incorrect Answers:

B, C: The Site property of the ServiceController and ServiceInstaller class should not be used because they bind a component to a container and enables communication between them.

D: This property should not be used as it is meant to specify the name of the service at the time of installation. The DisplayName property is used to specify the friendly name of the service at the time of installation.